

01055 Sequence Listing  
SEQUENCE LISTING

<110> Cristillo, Anthony D.

Kalyanaraman, Vaniambadi

Pal, Ranajit

<120> Mutant Immunodeficiency Viral Nucleic Acids And Vaccine Containing Same

<130> 2781-115

<160> 13

<170> PatentIn version 3.0

<210> 1

<211> 4

<212> PRT

<213> Artificial

<220>

<223> budding mediating motif core sequence

<400> 1

Pro Thr Ala Pro

1

<210> 2

<211> 4

<212> PRT

<213> Artificial

<220>

<223> budding mediating motif core sequence

<220>

01055 Sequence Listing

<221> PEPTIDE

<222> (3)..(3)

<223> X may be any amino acid

<400> 2

Pro Pro Xaa Tyr  
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<210> 3

<211> 4

<212> PRT

<213> Artificial

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<223> budding mediating motif core sequence

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<221> PEPTIDE

<222> (2)..(3)

<223> Xaa may be any amino acid

<400> 3

Tyr Xaa Xaa Leu  
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<210> 4

<211> 4

<212> PRT

<213> Artificial

<220>

<223> budding mediating motif core sequence

<400> 4

Pro Ser Ala Pro  
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<210> 5

# 01055 Sequence Listing

<211> 4

<212> PRT

<213> Artificial

<220>

<223> budding mediating motif core sequence

<400> 5

Tyr Pro Asp Leu

1

<210> 6

<211> 156

<212> DNA

<213> Human immunodeficiency virus type 1

<220>

<221> CDS

<222> (1)..(144)

<400> 6

ctg	cag	aac	aga	cct	gag	ccc	acc	gcc	cca	cct	gct	gag	agc	ttc	cgg	48
Leu	Gln	Asn	Arg	Pro	Glu	Pro	Thr	Ala	Pro	Pro	Ala	Glu	Ser	Phe	Arg	
1				5				10						15		

ttc	gaa	gag	acc	aca	ccc	gcc	ccc	aag	cag	gag	agc	aag	gac	aga	gaa	96
Phe	Glu	Glu	Thr	Thr	Pro	Ala	Pro	Lys	Gln	Glu	Ser	Lys	Asp	Arg	Glu	
			20					25					30			

gca	ctg	acc	agc	ctg	aag	agc	ctg	ttc	ggc	agc	gat	ccc	ctg	agc	cag	144
Ala	Leu	Thr	Ser	Leu	Lys	Ser	Leu	Phe	Gly	Ser	Asp	Pro	Leu	Ser	Gln	
		35					40					45				

tgaggatccg	aa	156
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<210> 7

<211> 48

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 7

01055 Sequence Listing

Leu Gln Asn Arg Pro Glu Pro Thr Ala Pro Pro Ala Glu Ser Phe Arg  
1 5 10 15

Phe Glu Glu Thr Thr Pro Ala Pro Lys Gln Glu Ser Lys Asp Arg Glu  
20 25 30

Ala Leu Thr Ser Leu Lys Ser Leu Phe Gly Ser Asp Pro Leu Ser Gln  
35 40 45

<210> 8

<211> 66

<212> DNA

<213> Human immunodeficiency virus type 1

<220>

<221> CDS

<222> (1)..(63)

<400> 8

ctg cag aac aga cct gag cca gtg agg atc cga att cct gca gcc cgg 48  
Leu Gln Asn Arg Pro Glu Pro Val Arg Ile Arg Ile Pro Ala Ala Arg  
1 5 10 15

ggg atc cgc ccg ggc tag 66  
Gly Ile Arg Pro Gly  
20

<210> 9

<211> 21

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 9

Leu Gln Asn Arg Pro Glu Pro Val Arg Ile Arg Ile Pro Ala Ala Arg  
1 5 10 15

Gly Ile Arg Pro Gly  
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<210> 10

<211> 1485

# 01055 Sequence Listing

<212> DNA

<213> Human immunodeficiency virus type 1

<400> 10

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ctggagcggg tgcactgaa tcctggcctc ctggagacca gcgaaggatg caaacagatc	180
atgaagcagc tccaaccagc tctgcagacc ggcactgagg aactgagaag cctgtacaac	240
accgtggcca ccctgtactg cgtgcacgag ggcgtggaag tgcgggacac caaggaggcc	300
ctggaccgga tcgaggaaga gcagaacaag atccagcaaa agatccagca gaagacccaa	360
caggccgctg atggaaaggt gagccagaac taccatcatg tccagaacct ccagggccag	420
atggtgcacc agaagctgag ccctcggaca ctgaacgcct gggtaaggt gatcgaagag	480
aaggccttca gccctgaagt gatcccatg ttcacagctc tgagcgaagg cgccactcct	540
caggacctga acaccatgct gaacaccgtg ggaggccacc aagctgcaat gcagatgctg	600
aaggacacca tcaacgagga agctgccgag tgggacagac tgcattcagt ccacgccgga	660
cccatcgctc ctggccagat gcgggaacct agaggaagcg atatcgctgg cactacctcc	720
accctgcaag agcagatcgc ttggatgacc agcaaccccc ctatccccgt cggcgacatc	780
tacaagcggg ggatcatcct gggcctgaac aagatcgtga gaatgtacag ccccgtgagc	840
atcctggaca tcaagcaagg acctaaggag cccttcagag actacgtcga ccggttcttt	900
aagactctga gagccgagca ggcaacccag gaggtgaaga actggatgac cgacacactg	960
ctggtccaga acgccaaccc cgactgcaag accatcctga aggctctggg acccggcgcc	1020
acactggaag agatgatgac agcatgccag ggcgtcggag gaccaagcca caaagcaaga	1080
gtgctcgccg aggccatgag ccagaccaac agcgtgaata tcctgatgca gaagagcaac	1140
ttcaaaggca acaagcggat ggtcaagtgc ttcaactgtg gcaaggaagg acacatcgca	1200
cggaactgca gagctccacg gaagaaaggc tgctggaagt gcggcaagga aggacaccag	1260
atgaaggact gcacagagcg gcaagcaaac ttctcggaa agatctggcc aagccacaag	1320
ggaagacccg gcaatttcct gcagaacaga cctgagccca ccgccccacc tgctgagagc	1380
ttccggttcg aagagaccac acccgcccc aagcaggaga gcaaggacag agaagcactg	1440
accagcctga agagcctgtt cggcagcgat cccctgagcc agtga	1485

<210> 11

<211> 38

# 01055 Sequence Listing

<212> DNA

<213> Artificial

<220>

<223> mutation primer

<400> 11

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<210> 12

<211> 38

<212> DNA

<213> Artificial

<220>

<223> mutation primer

<400> 12

ccggaagctc tcagcaggct caggtctggt ctgcagga

38

<210> 13

<211> 12

<212> DNA

<213> Human immunodeficiency virus type 1

<400> 13

cccaccgccc ca

12